GH-50017-2 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No: To Be Assigned

Applicant: Keith Charles Deen Filed: Herewith

Title: TUMOR NECROSIS RELATED RECEPTOR, TR7

TC/A.U.: Unknown

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO 1449 (RP) submitted herewith.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement

Under 37 C.F.R. § 1.98(d), copies of the patents and publications listed on the enclosed PTO Form 1449 are not required to be provided, because they were cited by or submitted to the Patent and Trademark Office in prior application Serial No. 09/314,844, filed May 19, 1999, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

This Information Disclosure Statement is being filed concurrently with the abovereferenced application.

Respectfully submitted,

Robert L. Andersen, Reg. No. 25,771

Attorney for Applicants

RLA/pb

Enclosures: PTO Form 1449

Transmittal Form

Dated: September 15, 2003

P.O. Box 980

Valley Forge, PA 19482-0980

(610) 407-0700

P.O. Box 980 Valley Forge, PA 19482 (610) 407-0700

P.O. Box 1596
Wilmington, DE 19899
(302) 778-2500

The Assistant Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. **19-2387** of any fees associated with this communication.

EXPRESS MAIL

Mailing Label Number:

Mailing Label Number Date of Deposit: EL 321472091 US

September 15, 2003

I hereby certify that this paper and fee are being deposited, under 37 C.F.R. § 1.10 and with sufficient postage, using the "Express Mail Post Office to Addressee" service of the United States Postal Service on the date indicated above and that the deposit is addressed to the Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Kathleen Libby

Substitute for Form 1449A/PTO		Complete if Known	_
	Application Number	To Be Assigned	
INFORMATION DISCLOSURE	Filing Date	Herewith	
STATEMENT BY APPLICANT	First Named Inventor	Keith Charles Deen	
(Use as many sheets as necessary)	Art Unit	Unknown	
	Examiner Name	Not Yet Assigned	
SHEET 1 of 4	Attorney Docket No.	GH-50017-2	

			U.S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number - Kind Code ^{2 (if known)}	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
		US-6,358,508-B1	03-10-2002	Ni et al.	Throughout
		US-2002/0168359-A1	11-14-2002	Ni et al.	Throughout
		US-2002/0164684-A1	11-07-2002	Ni et al.	Throughout
	-	US-5,350,836 A	9-1992	Kopchick, et al.	Throughout
	1	US-			
		US-			T
		US-			
		US-			

		FOREIGN PA	TENT DOCUMEN	TS		
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant	
Initials*	No.1	Country Code ³ - Number ⁴ - Kind Code ^{5 (If known)}	(MM-DD-YYYY)	Applicant of Cited Document	Passages or Relevant Figures Appear	T ⁶
		WO 96/43095	10-31-96	SmithKlineBeecha m		
					l	
				L	L	

	miner		Date	1
[Sig	nature		Considered	1
*EV	AMTMED: Initial if reference considered	hash as a seat of the state of the seat of the section of	A Dec III at the Best of	

considered. Include copy of this form with next communication to Applicant.

Enter Office that issued the document, by the bwo-letter code (WIPO Standard \$4.3.)

The Japanese patient documents, the indication of the veger of the reign of the Emperir must precise the serial number of the patent document.

The Japanese patient documents, the indication of the veger of the reign of the Emperir must precise the serial number of the patent document.

Applicant is to piece a check mark here if English inguage translation is attached.

USPTO to process) an application. Confidentially is governed by 31 CE. 122 and 37 CPR 1.14. This collection is tellented to the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 31 CE. 122 and 37 CPR 1.14. This collection is estimated to take of hours to complete USPTO to process an application. Confidentially is governed by 31 CE. 122 and 37 CPR 1.14. This collection is estimated to take of hours to complete the form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandra, VA 22313-1450. DOI TSEND FEES OR COMMETED FORMS TO THIS CONFIDENCE CONFIDEN

Applicant's unique citation designation number (optional).

Set Kind Codes of USPTO Patent Documents at www.wspto.gov or MPEP 901.04.

Set for Mind codes of WIPO Standard St.3).

Substitute for Form 1449B/PTO			Complete if Known	
		Application Number	To Be Assigned	
INFORMATION DIS	CLOSURE	Filing Date	Herewith	
STATEMENT BY A		First Named Inventor	Keith Charles Deen	
(Use as many sheets as ne		Art Unit	Unknown	
		Examiner Name	Not Yet Assigned	
	SHEET 2 of 4	Attorney Docket No.	GH-50017-2	

		NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published Unpublished Copy Enclosed	T ²
	1	Decision on Preliminary Motions in U.s. Pto Interference No. 104,784, with attachments, 7-9-03, U.S. PTO Board of Patent Appeals aned Interferences	
	2	Bork, P. (1996), Go hunting in sequence databases but watch out for the tarps. Trends Genetics, 12(10):425-427	
	3	Pilbeam, et al. 1993, Bone. 14:717-720	
	4	Bork, P. (1998), Powers and Pitfalis in Sequence Analysis: The 70% Hurdle, Genome Res., 10:398-400, esp. p. 400.	
	5	Doerks, T. (1998), Protein annotation: detective work for function prediction. Trends Genetics. 14(6):248-250	
	6	U.S. Patent Application S/N 09/095,094, filed June 10, 1998, Jian Ni et al., "Human Tumor Necrosis Factor Receptor TR9"	
	7	Kwon et al., "A newly-identified member of the tumor necrosis factor receptor superfamily", Journal of Allergy and Clinical Immunology, Vol. 99 (1), pp. S467 (1997). ABSTACT	
	8	ACCESSION # AA351536.	
	9	ACCESSION # AA155873	
	10	ACCESSION # D59902	
	11	ACCESSION # AA357321	
	12	ACCESSION # AA374471	
	13	ACCESSION # N49208	C
	14	ACCESSION # H44577	F

Examiner	Date		
Signature	Considered	j	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

considence. Include copy of this form with next communication to Applicant.

Applicant: Insulance cation designation number of protein and translation is attached.

The collection of information is required by 37 CRR 1.98. The information is required to do.

The collection of information is required by 37 CRR 1.98. The information is required to add 37 CRR 1.14. This collection is estimated to take 120 minutes to complete, including attenting, preparing, and submitting the completed application form to the USPTO. This will very depending upon the individual case. Any commenced application form to the USPTO. The will very depending upon the individual case. Any commenced application form to the USPTO. The will very depending upon the individual case. Any commenced application form to the USPTO. The will very depending upon the individual case. Any commenced application form to the USPTO. The will very depending upon the individual case. Any commenced application form to the USPTO. The will very depending upon the individual case. Any commenced application form to the USPTO. The will very depending upon the individual case. Any commenced application form to the USPTO. The will very depending upon the individual case. Any commenced application form to the USPTO. The will very depending upon the individual case. Any commenced application form will be used to the upon will be used to the use of the use of the use of the used to the use of the uservation of the use of the used to the use of the use of the uservation of the us

PTO/SB/08b (05-03) (AW 07/03)
Approved for use through 05/31/2003, OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a co on unlass it displays a valid OMB control numb

Substitute for Form 1449B/PTO		Complete if Known	$\overline{}$
	Application Number	To Be Assigned	
INFORMATION DISCLOSURE	Filing Date	Herewith	
STATEMENT BY APPLICANT	First Named Inventor	Keith Charles Deen	
(Use as many sheets as necessary)	Art Unit	Unknown	
	Examiner Name	Not Yet Assigned	
SHEET 3 of 4	Attorney Docket No.	GH-50017-2	

		NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	15	EST #2051015.	
	16	STN Search Print out of TNF-Receptor Related Products	
	17	Skolnick, J. (2000), From genes to protein structure and function: novel applications of computational approaches in the genomic era., Trends in Biotech., 18(1):34-39, esp. p. 36	
	18	Murdoch, et al. (2000) Blood, 95(10):3032-3043	
	19	Vukicevic, S. et al., (1996) Induction of nephrogenic mesenchyme by osteogenic protein 1 (bone morphogenetic protein 7) PNAS USA 93-9021-9026.	
	20	Massague, J. (1987) The TGF-B Family of Growth and Differentiation Factors. Cell 49:437-438	
	21	Smith, T. et al., (1997) The challenges of genome sequence annotation or "The devil is in the details". Nature Biotech. 15:1222-1223	
	22	Brenner, S. (1999) Errors in genome annotation. Trends in Genetics 15(4):132-133	
	23	Frommel et al., J. Mol, Eval 198, p, 233-57, vol. 21	

Examiner	Date	1
Signature	Considered	l .

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

*EXAMINE: Initial if reference considered, whether or not citation is in conformance with MPE 609. Draw line through citation if not in conformance and not considered, include copy of this form with exact communication to Asplicant.

*Applicant is to place a check mark here if English inequage translation is attached.

*Applicant is to place a check mark here if English inequage translation is attached.

The collection of information is required by 3 / CFR 1.14. This collection is estimated to take 120 minutes to complete, including anomal confidentistic yet operand by 3 / CFR 1.14. This collection is estimated to take 120 minutes to complete, including amount of time you require to complete child form and the confidentistic yet operand by 3 / CFR 1.14. This collection is estimated to take 120 minutes to complete, including amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Child Information Officer, U.S. Potent and Trademark, Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, V. 2 2313-1450. DO NOT SERIO FEED FORMS TO THIS ADDRESS.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a colle

Substitute for Form 1449B/PTO		Complete if Known
	Application Number	To Be Assigned
INFORMATION DISCLOSURE	Filing Date	Herewith
STATEMENT BY APPLICANT	First Named Inventor	Keith Charles Deen
(Use as many sheets as necessary)	Art Unit	Unknown
	Examiner Name	Not Yet Assigned
	AM Deal at Ma	011 50017 0

		NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, Journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²
	24	Bowle et al., Science 247, 1990, p 1306	
	25	Ngo et al., The Protein Folding Problem, Ed Mertz, 1994, p. 4337	
	26	George et al. et al. Macro mol., Seq & Syn, 1988, p. 127-149	
	27	ACCESSION # H44234	
	28	ACCESSION # AA382042	
	29	EST # 1502886	
	30	EST # 843791	
	31	Fujiwara et al., "Unpublished" DATABASE EMBL, XP002072603, ENTRYNAME HS073E08B, 27 August 1995. ABSTRACT	
	32	Copy of European Search Report	
	33	Bork, P. (2000) Powers and Pitfalls in Sequence Analysis: The 70% Hurdle. Genome Research 10:398-400	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not
considered. Include copy of this form with next communication to Applicant.

Date Considered

Examiner Signature

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

considered. Include copy of this form with next communication to Applicant.

Applicant is to place a check mark here if English languagestation instead of Applicant is place a check mark here if English languagestation is statuted.

Applicant is to place a check mark here if English languagestation is statuted to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an applicant. Confidentially is governed by 3.5 U.S. C. 122 and 37 CPR. 11.4. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application from the USPTO. Time will vary depending upon the individual case. Any comments on the amount of their by require to complete this form address (ruggestions for reducing this burden, should be sent to the Chef Information CU.S. Papert made of Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandris, VA. 2213-1450. DO NOT SEND FEES DR COMPLETED FORMS TO THIS ADDRESS. SERVE TO. Commerce assistance is commented to the transport of the process of the complete of the form and 1-800-8770-1919-191-1800-8790-1919 and select cotion or.